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Jul 27, 2001

DERWENT-ACC-NO: 2001-487711

DERWENT-WEEK: 200153

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TITLE: Method of production of ethyl alcohol and aqueous-spirituos solution from  
its for vodka production

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PATENT-ASSIGNEE:

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PRIORITY-DATA: 1999RU-0125161 (December 6, 1999)

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PATENT-FAMILY:

PUB-NO

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LANGUAGE

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MAIN-IPC



RU 2171293 C1

July 27, 2001

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C12P007/06

APPLICATION-DATA:

PUB-NO

APPL-DATE

APPL-NO

DESCRIPTOR

RU 2171293C1

December 6, 1999

1999RU-0125161

INT-CL (IPC): C12 G 3/08; C12 P 7/06

ABSTRACTED-PUB-NO: RU 2171293C

BASIC-ABSTRACT:

NOVELTY - Starch-containing raw is milled and mixed with water activated in membrane electrolyzer with redox-potential (+900 - +1200) mV and pH 1.0-2.0 and mixture is treated at 100-120 C for 30 min, not less, saccharified (hydrolysis) with boiled malt mass enzymes and obtained wort is fermented with yeast at 23-25 C in reactor. Mash is distilled off to obtain crude alcohol: the first fraction has 80-83% of alcohol, the second fraction has 70-79% of alcohol and the third fraction has 40-59% of alcohol and these fractions are subjected for rectification separately and alcohol concentration is brought about to 95-96%. Soybeans or okara (oil cake) obtained from soybeans by squeezing soybean milk on filter-press is used as starch- -containing raw. Before wort fermentation with yeast soybean meal prepared from germinated soybeans treated preliminary with growth stimulating agent for 3 h, not less, before germination is added to wort in the ratio 10:1, not above. Water activated in membrane electrolyzer with negative redox- -potential (-500-900) mV and pH 9.0-11.0 taken in the amount 50% of soybeans mass, not less, is

used as a growth stimulating agent. Dry soybean milk or dry milk whey serum taken in the amount 0.5-5.0 kg/1000 ml of alcohol is added to crude alcohol of 1, 2 and 3 fraction before its rectification followed by stirring each fraction and settling for 3 h, not less, followed by filtration. Obtained alcohol is mixed with an aqueous solution of salt activated in membrane electrolyzer with negative redox-potential (-500-900) mV and pH 9.0-11.0 taken in the amount that is sufficient to obtain 40% in mixture. Mixture of salts NaCl, KCl, CaCl<sub>2</sub>, MgCl<sub>2</sub> is used as salts source being in the same ratios as in human blood plasma with total salt concentration 10 g/l, not above. Salt ratio in activated solution is 80:2:2:1, respectively. Invention provides the possibility of purification or treatment of alcohol or vodka using available technological equipment and components ensuring to neutralize effect of toxic substances containing in alcohol or vodka.

USE - Alcoholic and liqueur and vodka industry.

ADVANTAGE - Improved method of ethyl alcohol production. 6 cl, 6 ex

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: METHOD PRODUCE ETHYL ALCOHOL AQUEOUS SOLUTION VODKA PRODUCE

DERWENT-CLASS: D16

CPI-CODES: D05-E;

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C2001-146308

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